"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

USSR/Cultivated Plants - Fodders. M-6

Abs Jour : Ref Zhur - Biol., No 9, 1958, 39366

Author : Khodasevich, E.V.

Inst : Institute of Biology AS BSSR

Title : Alfalfa Varieties Offering Good Prospects in Byelorussia

Orig Pub : Byul. In-ta biol. AN BSSR, Vyp. 2, 1956 (1957), 12-15

Abstract : No abstract.

Card 1/1

KHODASEVICH, E.V.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

Promising alfalfa varieties under conditions prevailing in White Russia. Biul. Inst. biol. AN BSSR no.2:12-15 '57. (MIRA 11:2)
(White Russia--Alfalfa--Varieties)

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASEVICH, N.V.

Alfalfa varieties of promise for White Russia. Report No.2.
Biul.Inst.biol.AN BSSR no.3:68-72 '58. (MIRA 13:7)
(WHITE RUSSIA--ALFALFA--VARIETIES)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASEVICH, E.V.

Studying the amino acid content of proteins and free amino acids in alfalfa. Biul.Inst.biol.AN BSSR no.3:133-135 '58.
(MIRA 13:7)

(AMINO ACIDS) (ALFALFA)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASEVICH, E. V.

Cand Biol Sci - (diss) "Biological characteristics and biochemical characteristics of several varieties of alfalfa introduced in the Belorussian SSR." Minsk, 1961. 19 pp; (Belorussian State Univ imeni V. I. Lenin); 220 copies; price not given; (KL, 6-61 sup, 209)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASEVICH, E.V.

Frost resistance of different varieties of alfalfa in White Russia. Biul. Inst. biol. AN BSSR no.6:170-174 '61. (MIRA 15:3)
(WHITE RUSSIA--ALFALFA--VARIETIES)
(PLANTS--FROST RESISTANCE)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

GODNEV, T.N.; KHODASEVICH, E.V.

Concerning the structure of the lamellae of chloroplasts.
Biul. Inst. biol. AN BSSR no.6:111-114 '61. (MIRA 15:3)
(CHROMATOPHORES)
(PHOTOSYNTHESIS)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

GODNEV, T.N., akademik; AKULOVICH, N.K.; KHODASEVICH, E.V.

Participation of the etherified and unetherified forms of the protochlorophyll of etiolated sprouts in the formation of a-chlorophyll. Dokl. AN SSSR 150 no.4:920-923 Je '63. (MIRA 16:6)

1. Institut biologii AN BSSR.
(Chlorophyll) (Etiolation)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

ACCESSION NR: AP4036730 S/0020/64/156/002/0471/0473

AUTHOR: Godnev, T. N. (Academician, AN BSSR); Khodasevich, E. V.; Akulovich, N. K.

TITLE: On the secondary action of powerful light pulses on the stability of photosynthesizing systems

SOURCE: AN SSSR. Doklady*, v. 156, no. 2, 1964, 471-473

TOPIC TAGS: photosynthesis, chloroplast, chlorophyll, transmutation, pigment system, protochlorophyll, quantum light energy

ABSTRACT: The authors were interested in tracing the effect of powerful light intensities, during long periods of exposure, so as to quantitatively study the capacity of chloroplasts to repeat photochlorophyll production and chlorophyll storage during subsequent illumination by diffused light. In addition, the after-effects of repeated powerful short flashes were studied. The experimental subjects were 12-day old etiolated intersprouts of corn. The plants were exposed at 6-second intervals to powerful (10^{10} erg/cm·sec) light sources having frequencies of 1, 2, 10, and 100 pulses per sec and a duration of 1/500 sec. It was concluded that

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

ACCESSION NR: AP4036730

the photochlorophyll of the plants was transmuted into chlorophyll (chlorophyllide + chlorophyll) from 42% (at 1 pulse) to 36% (at 100 pulses) of protochlorophyll. It was determined that the transmuted protochlorophyll gave no evidence of destructive action on the pigment system and that the process of protochlorophyll accumulation continued normally. The photosynthesizing system, as a whole and contiguous to the chloroplast of plasma, was not damaged by the brief exposure to large amounts of quantum light energy. Orig. art. has: 2 tables.

ASSOCIATION: Institut eksperimental'noy botaniki i mikrobiologii. Akademii nauk BSSR (Institute of Experimental Botany and Microbiology, Academy of Sciences, BSSR)

SUBMITTED: 07Jan64 DATE ACQ: 16Jun64 ENCL: 00

SUB CODE: LS NO REF SOV: 001 OTHER: 008

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

GODNEV, T.N., akademik; KHODASEVICH, E.V.

Pigment biosynthesis in some evergreen plants at subfreezing temperatures. Dokl. AN SSSR 160 no.5:1206-1208 F '65.
(MIRA 18:2)

1. Institut eksperimental'noy botaniki i mikrobiologii AN BSSR.
2. AN BSSR (for Godnev).

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASEVICH, I.A.; KIRILKIN, G.Ye.; MIKHALENKO, G.S.

Railroad worker with initiative. Put' i put.khoz. 6 no.5:44 '62.
(MIRA 15:4)

1. Nachal'nik Mogilevskoy distantsii Belorusskoy dorogi (for Khodasevich).

(Railroads—Employees)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

SONGINA, O.A.; KHODASEVICH, S.A.

Part played by Zimmerman-Reinhardt's solution in the permanganometric determination of iron. Zhur.anal.khim. 16 no.5:516-522 S-O '61. (MIRA 14:9)

1. Kazakh State University, Alma-Ata.
(Iron--Analysis)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

SONGINA, O.A.; DAUSHEVA, M.R.; KHODASEVICH, S.A.

Amperometric titration of manganese with permangante in the presence of pyrophosphate. Zhur.anal.khim. 17 no.8:966-971 N '62. (MIRA 15:12)

1. S.M.Kirov Kazakh State University, Alma-Ata.
(Manganese—Analysis) (Conductometric analysis)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

ARABADZHI, V.I. (Minsk); KHODASEVICH, S.G. (Minsk)

Damage of trees by lightning. Priroda 52 no.2:99-100 '63.
(MIRA 16:2)

(Lightning) (Trees)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASEVICH, S.G.

Study of the electric current flow in broad-leaved and coniferous trees. Dokl. AN SSSR 155 no. 4:967-969 Ap '64. (MIRA 17:5)

1. Predstavleno akademikom A.L.Kursanovym.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASEVICH, V. G.

LIFANOV, P., otvetstvennyy za vypusk, YUSUPOV, G.G., otvet.red.; LIFANOV, P.K., red.; POGREBINSKAYA, K.A., red.; KRAYNYUK, P.K., red.; KHODASEVICH, V.G., red.; KHAMRAYEV, L., red.; BARKOVSKIY, I.I., red. YUGINBURG, S.M., red.; KOGAN, V.S., tekhn.red.

[Economy of Samarkand Province; a statistical manual] Narodnoe khoziaistvo Samarkandskoi oblasti; statisticheskii sbornik. Samarkand, 1958. 95 p. (MIRA 11:9)

1. Samarkand (Province). Oblastnoye statisticheskoye upravleniye (Samarkand Province--Statistics)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

SOV/137-59-1-1666

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 221 (USSR)

AUTHOR: Khodasevich, V. L.

TITLE: Improvements in Process Technology of Hot Stamping at the Minsk Automobile Plant (Usovershenstvovaniye tekhnologicheskikh protsessov goryachey shtampovki na Minskom avtomobil'nom zavode)

PERIODICAL: V sb.: Materialy Konferentsii po usoversh. tekhnol. obrabotki metallov davleniyem. Minsk, Belorussk. un-t, 1958, pp 17-25

ABSTRACT: A report on the improvements and modifications introduced into the technology of forging and stamping of the following components: The king pivot of the driven front axle of a lumber carrier; the main drive shaft for the model MAZ-525 automobile; the universal-joint fork; the left steering-knuckle arm; and the worm segment of the steering mechanism.

M. Ts.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASEVICH, V.R.

Effect of ACTH on the intestinal motility and its reflex regulation. Trudy Khab. med. inst. 23 no.2:41-43 '62
(MIRA 16:12)

1. Iz kafedry patologicheskoy fiziologii (zav. dotsent V.I. Lindenbratem) Khabarovskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

GALKIN, Mikhail Aleksandrovich; POPKOV, Ivan Varfolomeyevich; SURGANOV, B.S., red.; KHODASEVICH, Yu.G., mlad. red.

[Collection of problems for the course "The organization and planning of an industrial enterprise"] Sbornik zadach po kursu "Organizatsiia i planirovanie promyshlennogo predpriiatiia." Moskva, Ekonomika, 1965. 135 p. (MIRA 18:5)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASH, S.M., inzhener.

Building oxygen-producing installations at metallurgical plants.
Kislorod 10 no.2:44 '57. (MLRA 10:9)
(Oxygen--Industrial applications)
(Metallurgical plants)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASH, S-S

PAS. When small doses were used no morphological changes were observed. There was a correlation between the amounts of PAS given and the changes observed.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

URANOVA, Ye.V.; KHODASH, S.S.

Case of lymphadenosis complicated by reticulo- and fibrosarcoma.
Probl.gemat.i perel.krovi no.2:44-47 '62. (MIRA 15:1)

1. Iz kafedry patologicheskoy anatomii (zav. - deystvitel'nyy chlen AMN SSSR prof. N.A. Krayevskiy) TSentral'nogo instituta usovershenstvovaniya vrachey.
(LYMPHATICS—DISEASES) (CANCER)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

24(2)

AUTHORS: Bokiy, G. B., Corresponding Member, AS USSR, Atovmyan, L. O., Khodasheva, T. S.

SOV/20-128-1-20/58

TITLE: On Some Special Crystallochemical Features of the Complex Compounds of Ruthenium and Osmium

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 78-80 (USSR)

ABSTRACT: The afore-mentioned compounds have been only little investigated from the crystallochemical standpoint. These elements contain several stable groupings of the metal with light atoms, i.e. primarily with oxygen and nitrogen. The metal - hydrogen bond may differ according to the nature and number of the other atoms linked up to nitrogen: Me - NH_3, Me - NO_2, Me - NO, Me - N.

A similar series may be obtained for oxygen-containing compounds: Me - OH_2, Me - OH, Me - O. There is a certain similarity between these series, which the authors believe to be very important for the chemistry of these compounds. This fact has hitherto been to much neglected. The solid bond Ru - NO is a specific property of the complex compounds of ruthenium. The authors first point out some facts known from previous articles.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

On Some Special Crystallochemical Features of the Complex Compounds of Ruthenium and Osmium

SOV/20-128-1-20/58

New data is then given on the structure of the complex compounds of ruthenium and osmium, which contain NO, N, H_2O, and Cl as components. The compounds $K_2[RuNOCl_5]$ and $K_2[RuCl_5H_2O]$ exhibit the same structure and belong to the deformed structure of the type K_2PtCl_6. The structure of $K_2[RuNOCl_5]$ was investigated more in detail. The bond Ru - N - O is linear, and the distances Ru - N and N - O amount to 1.70 Å and 1.25 Å. This is also confirmed by the following concept: Me $\equiv$ ^+N - ^-O. Investigation of the Ru - NO bond is continued with the compound $K_2[RuNO(OH)(NO_2)_4]$. The osmium compounds $K_2Os_5NCl_5$ and $KOsNBr_4 \cdot 2H_2O$ exhibit the same structure though their chemical formulas differ. These compounds are interesting because of the particular features of the sixth component, i.e. of nitrogen. In the structures of $K_2[OsNCl_5]$ and $K[OsNBr_4H_2O]H_2O$ the distance Os - N $\sim$ 1.60 is distinctly

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

shorter than the sum of covalent radii (1.35 +0.55 = 1.90). The chlorine atom (which is in trans-position to the nitrogen atom) has a shortened distance on the coordinate N - Os - Cl ($\sim$2.1 Å). All this indicates the possible existence of a linear group which is similar to O - Os - O. The above series Me - N and Me - O are very similar in Ru- and Os compounds because the distances Me - N and Me - O are shortened in both cases. The authors then report briefly on the final members of the series of nitrogen-containing compounds. The assumption of linear groups in Os permits a new interpretation of the structure of the series of complex compounds. The authors believe that a compound of the composition $K_2OsO_4 \cdot 2H_2O$ contains the osmyl group $K_2\left[OsO_2(OH)_4\right]$. They began to analyze the structure of this group. Complex compounds similar to those investigated here are also found in Ru and some other metals. In many cases investigated in this article, the one coordinate of the octahedral complex differs greatly from the two other coordinates. This assumption will be checked by several examples. There are 2 tables and 14 references, 5 of which are Soviet.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

On Some Special Crystallochemical Features of the Complex Compounds of Ruthenium and Osmium SOV/20-128-1-20/58

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences, USSR)

SUBMITTED: June 12, 1959

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASHOVA, K.S.

Principal forms of rodents of the lowlands of Kazakhstan and some regularities of their geographical distribution. Trudy Inst.geog. 54:33-194 '53. (MLRA 7:5)
(Kazakhstan--Rodentia) (Rodentia--Kazakhstan)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASHOVA, K.S.; GIRET, L.A.

Contributions to the ecology of the water vole (Arvicola amphibius) of Northern Kazakhstan. Trudy Inst.geog. 54:195-218 '53. (MLRA 7:5)
(Kazakhstan, Northern--Water voles) (Water voles--Kazakhstan, Northern)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASHOVA, K.S.; SOLDATOVA, A.N.

Observations on seasonal characteristics of the mobility of lesser susliks and on changes in the extent of their feeding areas in the clayey semi-arid trans-Volga region. Trudy Inst.geog. no.66:167-187 '55. (MLRA 8:7)

(Volga Valley--Susliks) (Ural Valley--Susliks)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASHOVA, K.S.; FORMOZOV, A.N., doktor biolog.nauk, otv.red.; SEMILOVA, M.N., red.izd-va; KOLOKOL'NIKOV, K.A., tekhn.red.

[Natural environment and animal world of clayey semideserts of the trans-Volga region] Prirodnaia sreda i zhivotnyi mir glinistykh polupustyn' Zavolzh'ia. Moskva, Izd-vo Akad.nauk SSSR, 1960. 129 p. (MIRA 14:2)
(Volga-Ural region--Zoogeography)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASHOVA, K.S.; DINESMAN, L.G.

Role of lesser susliks in the formation of soils in the clayey semidesert of the trans-Volga region. Pochvovedenie no.1:68-76 Ja '61. (MIRA 14:1)

1. Institut geografii AN SSSR i TSentral'naya laboratoriya lesovedeniya AN SSSR.
(Volga Valley--Soils) (Volga Valley--Susliks)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

BOKIY, G.B.; KHODASHOVA, T.S.

X-ray analysis of $InF_3 \cdot 3H_2O$. Kristallografiia 1 no.2:197-204 '56. (MIRA 9:11)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova.
(Indium fluoride crystals)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

70-5-6/31

AUTHOR: Khodashova, T.S.

TITLE: The Structure of Crystals of Cobalt Hexafluogermanate Hexahydrate $Co(H_2O)_6.GeF_6$ (Stroyeniye kristallov geksaftorgermanata kobal'ta geksagidrata $Co(H_2O)_6.GeF_6$)

PERIODICAL: Kristallografiya, 1957, Vol.2, No.5, pp. 609-612 (USSR)

ABSTRACT: Crystals of $Co(H_2O)_6.GeF_6$ occur with two different habits one appearing orthorhombic and the other rhombohedral. The structure would be expected to be that of $Ni(H_2O)_6.SnCl_6$ which has a slightly distorted CsCl type of packing of the complex ions. Single crystal photographs gave the following cell dimensions: a = 17.30 ± 0.05, b = 19.48 ± 0.05 , c = 13.30 ± ± 0.05 KX and $\beta = 100^{\circ}10'$. a:b:c = 0.888 : 1 : 0.683. $d_{obs.} = 2.21$ g/cm^3 and Z = 16 . There is extremely strong pseudosymmetry each of the above dimensions being halved and β remaining unchanged; Z' is then 2. Extinctions indicate the space group of this pseudo cell to be $P2_1/a$. The cell can also be reckoned as pseudo-rhombohedral with parameters a = 11.7 KX and $\alpha = 113^{\circ}$ and the space group $R\bar{3}m$.

Cardl/3

70-5-6/31

The Structure of Crystals of Cobalt Hexafluogermanate Hexahydrate

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

From retigraph photographs Patterson projections along the three principal directions [001] , [100] and [010] were calculated and showed that the Co and Ge atoms were octahedrally surrounded by F atoms and H_2O molecules. The general structure is of the CsCl type. The co-ordination octahedra are oriented so that their three-fold axes coincide with the pseudo-threefold axis of the crystal. Half of each kind of octahedra have slightly different orientations giving the cell-edge doubling. The true cell can be allocated the dimensions a = 17.3 , b = 19,48 , c = 9.70 KX with $\beta = 139^{\circ}$, Z = 8 and space group C2/m. 8 Co atoms lie in the positions 2(a), 2(b) and 4(e) and the 8 Ge atoms in positions 4(h) with y = 0.25 and 4(i) with x = 0.25 and z = 0.5. The structure is very like that of $Ni(H_2O)_6.SnCl_6$ with slight variations in the mutual orientations of the complex ions. There are 3 figures and 5 references, 1 of which is Slavic.

ASSOCIATION: Kurnakov Institute of General and Inorganic Chemistry (Institut obshchey i neorgannicheskoy khimii im. N.S. Kurnakova)

Card 2/3

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASHOVA, [redacted]

Development of crystallochemical research. (Second conference on crystallochemistry). Vest. AN SSSR 27 no.6:104-106 Je '57.
(Crystallochemistry--Congresses)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASHOVA, T.S.

"New Data on the Crystal Chemistry of Complex Compounds of Ruthenium, Osmium and Platin"

a report presented at Symposium of the International Union of Crystallography Leningrad 21-27 May 1959

SO: U 3,139, 471 26 July 1959

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

S/081/60/000/021/001/018
A005/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 21, p. 19, # 83741

AUTHORS: Bokiy, G. B., Khodashova, T. S.

TITLE: Crystallochemistry of Indium

PERIODICAL: Mineralog. sb. L'vovsk. geol. o-vo pri un-te, 1959, No. 13, pp. 53-64 (English summary)

TEXT: The authors review the crystallochemistry of the In-compounds. The peculiarities of the metallic In-structure, its intermetallic and inorganic compounds are shown, as well as some regularities of its geochemical behavior. The affinity of In is pointed out to form covalence bonds with low coordination numbers in intermetallic compounds. For inorganic compounds of In(3+) with oxygen and halogens the coordination number 6 (octahedron) is characteristic, with the elements of the Vb- and VIb-subgroups the coordination number 4 (tetrahedron). The affinity to the formation of tetrahedral covalence bonds with elements of the VIb-subgroup increases with the transition from above downwards within the subgroup. By analyzing the compound structures of In with formal valence (2+) it is

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

Crystallochemistry of Indium

shown that actually either In-In bonds take place or simultaneously In (3+) and In^{+} are present. For In^{+} the coordination numbers 7 and 8 are characteristic. In geochemical respect, great similarity is observed between In and Zn (in sulfide minerals) as well as between In and Sn (in compounds containing oxygen). That is obviously dependent on the crystallochemical properties of In in the compound groups mentioned. The specific crystallochemical analogy between In and Hg is also pointed out.

T. Khodashova

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASHOVA, T. S.

Problems in structural inorganic chemistry at the Third National Congress of Inorganic Chemistry in Bratislava. Zhur. strukt. khim. 1 no.1:127-128 My-Je '60. (MIRA 13:8)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova AN SSSR.
(Chemistry, Inorganic--Congresses)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASHOVA, T.S.; BOKIY, G.B.

Structure of potassiym nitrosopentachlororuthenate. Zhur. struk. khim. 1 no.2:151-158 Jl-Ag '60. (MIRA 13:9)

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR.
(Potassium compounds) (Ruthenium compounds)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASHOVA, T.S.

Structure $K_2[RuCl_5H_2O]$. Zhur. strukt. khim. 1 no.3:333-336 S-O '60. (MIRA 14:1)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR.

(Ruthenium compounds)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODASHOVA, T.S.

Structure of crystals of nitrosopentamine ruthenium trichloride.
Zhur.strukt.khim. 4 no.1:111-112 Ja-F '63. (MIRA 16:2)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR.
(Ruthenium compounds) (Nitroso compounds)
(Crystallography)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

BUTMAN, L.A.; KHODASHOVA, T.S.; MINACHEVA, L.Kh.; TAYUKIN, V.I.

Making the structure of crystals of potassium nitrosohydroxotetranitroruthenate more precise. Zhur.strukt. khim. 5 no. 2:250-256 Mr-Ap '64. (MIRA 17:6)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

STARIKOVA, Z.A.; PORAY-KOSHITS, M.A.; ZORKIY, P.M.; KHODASHOVA, T.S.

X-ray structural analysis of copper and nickel salicylal-α-phenylethyl iminates. Zhur. strukt. khim. 6 no.2:315-316 Mr-Ap '65. (MIRA 18:7)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

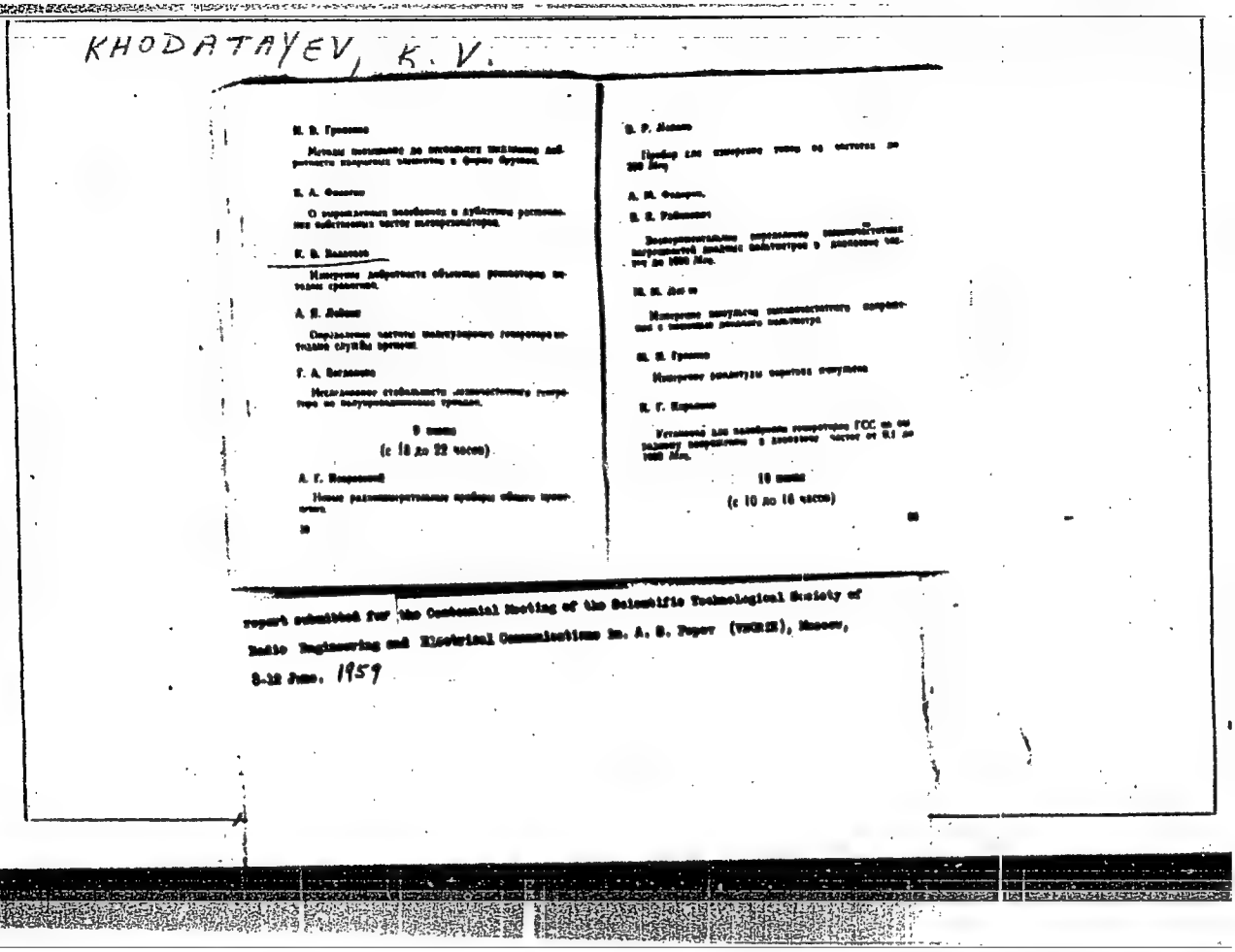
KHODASHOVA, T.S.

X-ray structural study of ruthenium nitrosopentammine trichloride crystals. Zhur.strukt.khim. 6 no.5:716-723 S-O '65. (MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR. Submitted March 6, 1964.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5



KHODATAYEV, K. V.

report submitted for the Centennial Meeting of the Scientific Technological Society of Radio Engineering and Electrical Communications im. A. S. Popov (VNOIRE), Moscow, 8-12 June. 1959

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

BORZUNOV, N.A.; KUZ'MINA, N.Ya.; NEVYAZHSKIY, I.Kh.; OSOVETS, S.M.; PETROV, Yu.F.; POLYAKOV, B.I.; POPOV, I.A.; KHODATAYEV, K.V.; SHIMCHUK, V.P.

Studying a plasma on a traveling wave setup. Dokl. AN SSSR 152 no.3:581-584 S '63. (MIRA 16:12)

1. Predstavlano akademikom A.L.Mintsem.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

1. KHODATAYEV, V.P.

2. USSR (600)

4. Social Sciences

7. Place of railroad transport in the planning of towns, Moskva, Izd-vo po stroitel'stvo i arkhitekture, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March,1953.Unclassified.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

ZEMBLINOV, S.V., prof., doktor tekhn.nauk; BURAKOV, V.A., inzh.; OBERMEYSTER, A.M., mladshiy nauchnyy sotrudnik; POLYAKOV, A.A., doktor tekhn.nauk, starshiy nauchnyy sotrudnik; PERSIANOV, V.A., mladshiy nauchnyy sotrudnik; TAL', K.K., kand.tekhn.nauk, starshiy nauchnyy sotrudnik; KHODATAYEV, V.P., kand.tekhn. nauk. Prinimal uchastiye; ANDRULIONIS, Ye.P., kand.tekhn. nauk, mladshiy nauchnyy sotrudnik; SKALOV, K.Yu., kand.tekhn. nauk, red.; KHITROV, P.A., tekhn.red.

[Basis for construction of road transportation junctions] Osnovy postroeniia transportnykh uzlov. Pod obshchei red. S.V.Zemblinova. Moskva, Gos.transp.shel-dor.izd-vo, 1959. 464 p. (MIRA 12:9)
(Transportation) (Streets)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODATAYEV, V.P., kand. tekhn. nauk, nauchnyy red.; GAVALOV, O. V., red. izd-va; MOCHALINA, Z. S., tekhn. red.

[City planning and transportation; effect of the movement of traffic on the design of central regions of the United States and England.] Akademiia stroitel'stva i arkhitektury SSSR. TSentral'nyi institut nauchnoi informatsii po stroitel'stvu i arkhitekture. Planirovka gorodov i trnasport; vliianie transportnogo dvizheniia na planirovku tsentral'nykh raionov SShA i Anglii. Moskva, Gosstroiizdat, 1963. 118p. (Its Opyt zarubezhnoge stroitel'stva, no. 7) (MIRA 16:11)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

BESKIY, K.A., inzhener; KHODCHENKO, L.P., inzhener.

New container for hauling bricks. Biul.stroi.tekh. 10 no.3:7-10 F '53.
(MLRA 6:12)

1. Giproorgpromshilstroy Ministerstva ugol'noy promyshlennosti.
(Bricks) (Containers)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODCHENKO, L.P., inzhener; SHITOV, A.S., inzhener.

The SU-60 scraper unit. Biul.stroi.tekh. 10 no.10:29 My '53. (MLRA 6:8)

1. Institut Gipreorgpromshilstroy. (Excavating machinery)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODCHENKO, L.

USSR/Chemical Technology. Chemical Products and Their Application -- Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5320

Author: Khodchenko, L., Ryabukha, N.

Institution: None

Title: Attachment for Stretching of Concrete Specimens

Original Publication: Stroit. materialy, izdeliya i konstruktsii, 1956, No 5, 16

Abstract: Description of an attachment for determining the tensile strength of concrete specimens (cross-section 100 x 100 mm) by stretching them in a 4 ton laboratory press.

Card 1/1

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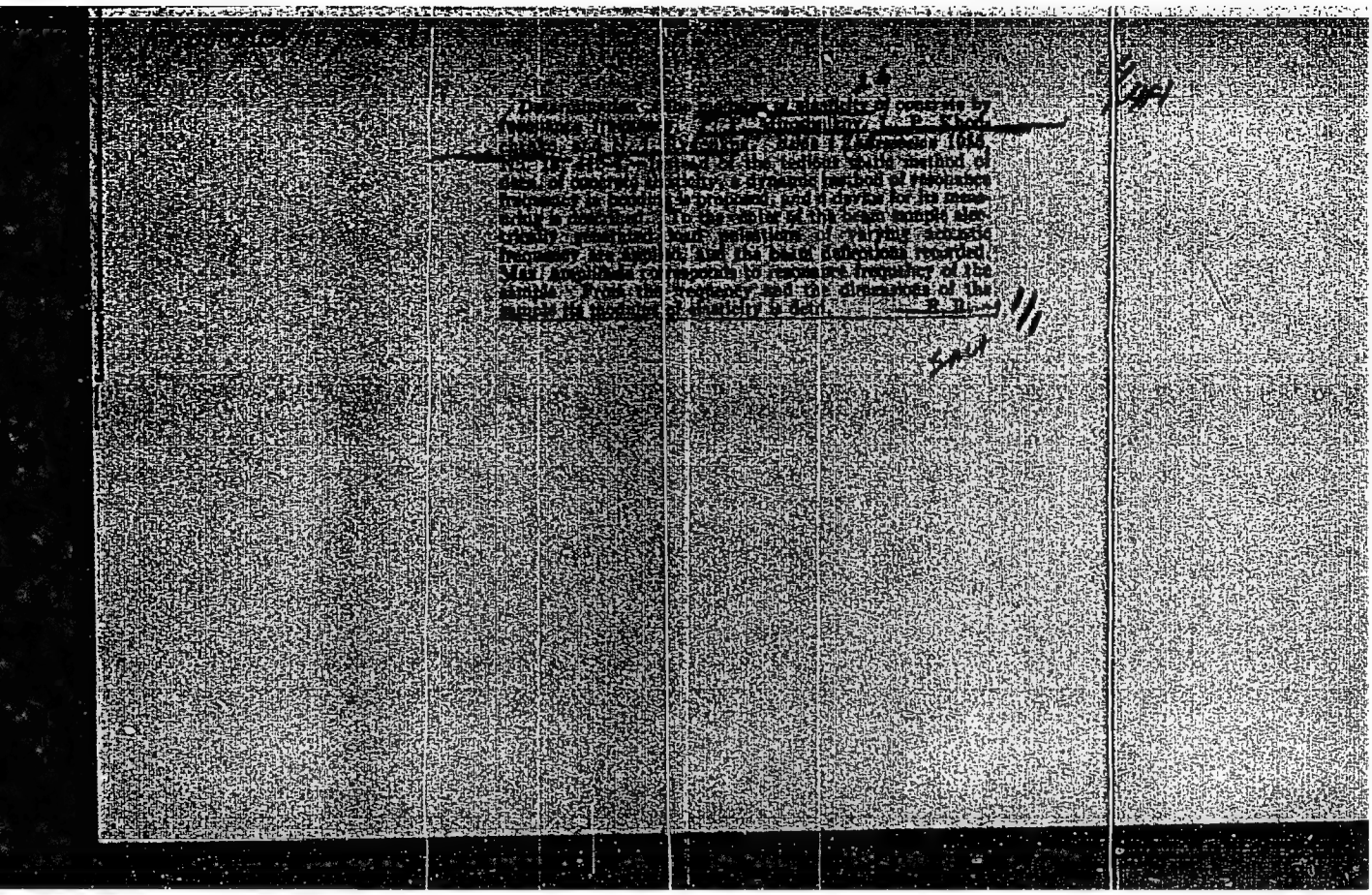

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODCHENKO, L.; RYABUKHA, N.; MOROZOV, M.

New laboratory equipment. Stroitel' no.1:29 Ja '57. (MLRA 10:2)

(Physical instruments)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

[redacted], L.P., inzhener; GOLIK, G.I., inzhener.

Standard metallic edge fittings for construction yards.
Shakht.stroi. no.4:25-27 Ap '57. (MLRA 10:7)
(Building materials industry--Equipment and supplies)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODCHENKO, Leonid Pavlovich; RYABUKHA, Nikolay Ivanovich; ALEKSANDROV, S.A., otvetstvennyy za vypusk.

[Apparatus for measuring linear deformations; informational report] Pribor dlia izmereniia lineinykh deformatsii; informatsionnoe soobshchenie. Kiev, 1958. 6 p. (MIRA 11:10)
(Deformations (Mechanics)) (Measuring instruments)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

SOV 77-3-4-14/23

AUTHORS: Vilenskiy, Yu.B.; Prokhotskiy, Yu.M.; Khodchenkov, A.N.

TITLE: Measuring the Spectral Photosensitivity of Photographic Materials (Ob izmerenii spektral'noy svetochuvstvitel'nosti fotomaterialov)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1958, Vol 3, Nr 4, pp 287-288 (USSR)

ABSTRACT: The author describes his method for measuring the optical densities of spectrosensitograms, in determining the spectral photosensitivity of photographic materials by the GOI system. An MF-4 recording microphotometer is used and the modification consists in alterations to the method of processing the results. This reduces the time required by 2-3 times and gives greater accuracy. The result is a curve showing the spectral photosensitivity of the film or plate, and by the same method characteristic curves for different values of the light wavelength can be constructed from the microphotograms. There are 3 graphs.

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

SOV 77-3-4-14/23

Measuring the Spectral Photosensitivity of Photographic Materials

ASSOCIATION: Shostka, Branch NIKFI (Shostka, the Filial of NIKFI)

SUBMITTED: April 25, 1958

1. Photographic emulsions--Photosensitivity 2. Microphotometers --Applications 3. Photographic emulsions--Test results

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

AUTHORS: Akishin, P. A., Spiridonov, V. P., Khodchenkov, A. N. SOV/76-32-7-38/45

TITLE: On the Electron Diffraction Investigations of the Molecular Structure of the Halides of Bivalent Tin and Lead (K voprosu ob elektronograficheskom issledovanii stroyeniya molekul galogenidov dvukhvalentnykh olova i svintsa)

PERIODICAL: Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 7, pp. 1679 - 1681 (USSR)

ABSTRACT: According to quantum chemical concepts a triangular configuration may be assumed for the molecules SnX_2 and PbX_2, and a tetrahedric structure for the molecules SnX_4 and PbX_4. While, on the hand, reliable experimental information on the structure of the latter two is known to exist, the problem of the structure of the former two has not yet been solved. Investigations carried out by Lister and Sutton (Ref 4) which were checked by the authors of this paper according to the equation by Schomaker (Ref 6) using the data obtained by the former, proved to be insufficient. For this reason the experiments were repeated, using a more perfect apparatus and method of determina-

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

On the Electron Diffraction Investigations of the Molecular Structure of the Halides of Bivalent Tin and Lead

SOV/76-32-7-38/45

tion. According to the experimental results obtained the following was found: The electron diffraction investigations of the gaseous halides of SnX_2 and PbX_2 make possible the determination of the inter—atomic distance metal - halide, however, not that of the molecule configuration. It must be taken into account that molecules of the types MeX, Me_2X_2, Me_2X_4, and others are contained in the vapors. The problem of the molecular composition of the vapor could be solved by the use of mass spectrometric methods, and that concerning the molecular configuration by radiospectroscopic methods. There are 1 figure, 1 table, and 7 references, 2 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova (Moscow State University imeni M.V.Lomonosov)

SUBMITTED: October 17, 1957

Card 2/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

5(4) SOV/76-33-1-4/45

AUTHORS: Akishin, P. A., Spiridonov, V. P., Khodchenkov, A. N.

TITLE: Electron Diffraction Investigation of the Molecular Structure (Elektronograficheskoye issledovaniye stroyeniya molekul) IX. Halides of Bivalent Mercury (IX. Galogenidy dvukhvalentnoy rtuti)

PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 1, pp 20-24 (USSR)

ABSTRACT: Since publications (Refs 1-3) give different values for the interatomic distances mercury-halogen, a new determination of the molecular parameters of HgX_2 is carried out by use of an improved apparatus and calculation method. The structures of the bivalent mercuric chloride, mercuric bromide, and mercuric iodide were determined. Determinations of HgF_2 were not successful. The electron diffractions were recorded by an electronograph of the Moscow State University. The calculations were carried out according to two methods, the method of gradual approach and of radial distribution. The curves of the radial distribution which were plotted according to Uolter and Bich's equation (Fig 1) indicated a linear configuration of the HgX_2

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

Electron Diffraction Investigation of the Molecular Structure. IX. Halides of Bivalent Mercury

molecules. In order to compare the results which were obtained visually and photometrically, microphotometric investigations of the HgJ_2 molecules were carried out by means of a microphotometer MF-4. The investigations carried out by means of electron diffraction showed that the molecules $HgCl_2$, $HgBr_2$ and HgJ_2 have a linear structure; the geometric parameters are compared with reference data (Table 4). In the case of the distances Hg-Cl and Hg-Br the values obtained coincide with those obtained by radiospectrographic methods (Ref 13). There are 2 figures, 4 tables, and 13 references, 6 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: May 17, 1957

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODCHENKOV, A.N.; GRECHKO, M.K.; VILENSKIY, Yu.B.; AL'PEROVICH, M.A.

Effect of the duration of chemical ripening on the optical sensitization of emulsions. Zhur. nauch. i prikl. fot. i kin. 8 no.3:167-173 My-Je '63. (MIRA 16:6)

1. Filial Vsesoyuznogo nauchno-issledovatel'skogo kinofoto-instituta, Shostka.
(Photographic emulsions)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHOLCHENKOV, A.N.; SPIRIDONOV, V.P.; AKISHIN, P.A.

Analytic approximation of the atomic factors for electron scattering. Kristallografiia 9 no.4:546-548 Jl-Ag '64. (MIRA 17:11)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODCHENKOV, A.N.; SPIRIDONOV, V.P.; AKISHIN, P.A.

Electron diffraction study of the structure of lithium and sodium nitrate molecules in the vapor state. Zhur.strukt.khim. 6 no.5:765-766 S-O '65. (MIRA 18:12)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. Submitted February 17, 1965.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

SPIRIDONOV, V.P.; KHODCHENKOV, A.N.; AKISHIN, P.A.

Electron diffraction study of the structure of a cesium sulfate molecule in vapors. Zhur. strukt. khim. 6 no. 4:633-634 Jl-Ag '65 (MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. Submitted February 17, 1965.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

SPIRIDONOV, V.P.; KHODCHENKOV, A.N.; AKISHIN, P.A.

Electron diffraction examination of the molecular structure of sodium and potassium chromates in vapors. Zhur. strukt. khim. 6 no. 4:634 Jl-Ag '65 (MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. Submitted February 17, 1965.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

SPIRIDONOV, V.P.; KHODCHENKOV, A.N.; AKISHIN, P.A.

Electron diffraction examination of the structure of α potassium perrhenate molecule in the vapor phase. Vest. Mosk. un. Ser. 2: Khim. 20 no.6:34-35 N-D '65. (MIRA 19:1)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta. Submitted May 13, 1965.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

L 39888-66 EWT(1)/EWT(m) IJP(c) WW/RM/JD/GD-2

ACC NR: AP6016884 SOURCE CODE: UR/0192/65/006/005/0765/0766

AUTHOR: Khodchenkov, A. N.; Spiridonov, V. P.; Akishin, P. A.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Electron-diffraction study of the structure of lithium nitrate and sodium nitrate molecules in the vapor state

SOURCE: Zhurnal strukturnoy khimii, v. 6, no. 5, 1965, 765-766.

TOPIC TAGS: electron diffraction analysis, sodium nitrate, nitrate, lithium compound, electron beam, camera, photography

ABSTRACT: Results of an electron-diffraction study of the vapor state of lithium nitrate and sodium nitrate are presented. The experiments were carried out on the MGU high-temperature electron-diffraction camera. Purchased preparations of lithium nitrate and sodium nitrate, classified as "analytically pure," were used in the investigation. Photographs of the electron-diffraction patterns of vapors of these compounds were made from a platinum ampule with release of vapor along the direction of the electron beam at a temperature of 450-500°C. Seventeen series of electron-diffraction patterns were obtained from the vapors of these compounds, using a rotating sector on diapositive film, coated with

Card 1/2 UDC: 539.27

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

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L 39888-66

ACC NR: AP6016884 O

a thin layer of black India ink, mixed directly before development. The wavelength of electrons in different series ranges from 0.0473 to 0.0592 AU. The following results were obtained: r (N=O) = 1.22 AU; r (N-O) = 1.40 AU; ∠ O=N=O 134°; ∠ MON 105° (these parameters are the same for both molecules within the limits of experimental error) r (Li - O) - 1.60 AU; and r(Na - O) = 1.90 AU. Both NO_2 groups are planar. [JPRS]

SUB CODE: 20, 07, 14 / SUBM DATE: 17Feb65 / ORIG REF: 002 / OTH REF: 006

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

L 39767-66 EWT(m)/EWP(t)/ETI IJP(c) WW/JD/JG/GD-2

ACC NR: AP6013822 SOURCE CODE: UR/0189/65/000/006/0034/0035

AUTHOR: Spiridonov, V. P.; Khodchenkov, A. N.; Akishin, P. A.

ORG: Chair of Physical Chemistry, Moscow State University (Kafedra fizicheskoy khimii, Moskovskiy gosudarstvennyy universitet)

TITLE: Electron diffraction study of the structure of the potassium perrhenate molecule in vapors

SOURCE: Moscow. Universitet. Vestnik. Seriya II. Khimiya, no. 6, 1965, 34-35

TOPIC TAGS: electron diffraction analysis, potassium compound, rhenium compound, molecular structure, photometric analysis

ABSTRACT: The structure of the potassium perrhenate molecule $KReO_4$ in the vapor state was studied with the electron diffraction camera used at MGU for investigating compounds of low volatility. The substance was vaporized off a molybdenum and a nickel ampoule, the vapor being emitted along the direction of the electron beam at a temperature of 800-900°C. The electron diffraction patterns were read by visual and photometric evaluation of the electron scattering intensity, using radial distribution and successive approximation methods. The radial distribution curve had peaks at r values of 1.75, 2.20 and 2.75 Å, which were readily interpreted as the distances Re=O, K-O, and the composition of distances between unbound oxygen atoms, respectively. The final configuration of $KReO_4$ was determined by the successive approximation method.

UDC: 539.19 + 541.57

Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

L 39767-66

ACC NR: AP6013822 O

The ReO_4 group was found to form a tetrahedron with the oxygen atoms at the vertices and the Re atom at the center; the Re atom forming one single and three double bonds with the oxygen atoms. The K atom is located in a plane passing through one of the edges of the tetrahedron, and is projected on the line of intersection of this plane with the basal plane. The following values of internuclear distances and angles were obtained: r(Re=O) = 1.75 Å; r(Re-O) = 1.95 Å; r(K-O) = 2.20 Å; O-Re=O = 95°; K-O-Re= =105°.

SUB CODE: 07/ SUBM DATE: 13May65/ ORIG REF: 001/ OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

L 1997-66 EWT(m)/T/EWA(m)-2

ACCESSION NR: AP5020249 UR/0367/65/002/001/0024/0027

AUTHOR: Khodel', V. A. 44,55

42
27
13

TITLE: Single particle l-forbidden transitions in nuclei

SOURCE: Yadernaya fizika, v. 2, no. 1, 1965, 24-27

TOPIC TAGS: forbidden transition, particle interaction, nuclear spin

ABSTRACT: The method of interacting quasiparticles, developed by A. B. Migdal (ZhETF v. 46, 1680, 1964; Nucl. Phys. v. 59, 29, 1964) is applied to the treatment of l-forbidden transitions. The transition of an odd quasi-particle in a near-magic nucleus, which is a pure single-particle transition is treated. The initial and final states are determined uniquely without solving a complicated set of equations, and the final result contains only the spin-spin interaction constant. The calculated probabilities of the l-transitions are less than those of the corresponding Ml transitions by two orders of magnitude, which is in satisfactory agreement with experiment. It is thus shown that the existence of single-particle l-

9,44,55

Card 1/2

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L 1997-66
ACCESSION NR: AP5020249

15

forbidden transitions is a consequence of spin-spin interaction of the quasi-particles. "The author thanks A. B. Migdal for continuous interest and valuable advice, and S. V. Kamerdzhiyev, E. Ye. Sapershteyn, and M. A. Troitskiy for an evaluation of the owrk." Orig. art. has: 11 formulas.

ASSOCIATION: Moskovskiy inzhenerno-fizicheskiy institut (Moscow Engineering-Physics Institute)

SUBMITTED: 29Dec64 ENCL: 00 SUB CODE: NP

NR REF SOV: 004 OTHER: 003

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

L 2232-66 EWT(m) DIAAP

ACCESSION NR: AP5020250 UR/0367/65/00 /001/0028/0034

AUTHOR: Migdal, A. B.; Khodel', V. A. 44,55

TITLE: Beta decay in nuclei 44,55

SOURCE: Yadernaya fizika, v. 2, no. 1, 1965, 28-34

TOPIC TAGS: Beta decay, particle interaction, nuclear spin, forbidden transition

ABSTRACT: The method of interacting quasiparticles, developed by one of the authors (Migdal, Nucl. Phys. v. 57, 29, 1964), is used to analyze beta decay in nuclei. The probabilities for the allowed beta transitions are calculated, with account taken of the interaction between quasiparticles, by calculating the matrix elements for the Fermi and Gamow-Teller transitions. It is shown that the Fermi matrix elements can be calculated accurately without taking Coulomb interaction into account. In the case of Gamow-Teller transitions in mirror nuclei, the field satisfies an equation identical with that for the polarizability of the daughter nucleus in the field. The presence of a spin-spin interaction between quasi-particles in Gamow-Teller transitions and to the appearance of the group of single-

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33
B

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L 2232-66

ACCESSION NR: AP5020250

9

particle i-forbidden transitions in which the orbital angular momentum of the quasi-particle changes by two units. "The authors thank Yu. V. Gaponov and E. Ye. Sapershteyn for valuable discussions." Orig. art. has: 18 formulas and 1 table.

ASSOCIATION: Moskovskiy inzhenerno-fizicheskiy institut (Moscow Engineering-Physics Institute)

SUBMITTED: 29Dec64 ENCL: 00 SUB CODE: NP

NR REF SOV: 005 OTHER: 003

Card 2/2

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

L 11953-66 EWT(1)/EWT(m) DIAAP/LJP(c)

ACC NR: AP6001148 SOURCE CODE: UR/0367/65/002/003/0433/0435

AUTHOR: Sapershteyn, E. Ye.; Khodel', V. A. 44,55 44,55

49
4D
B

ORG: None

TITLE: On the calculation of the magnetic moments of spherical nuclei 1955

SOURCE: Yadernaya fizika, v. 2, no. 3, 1965, 433-435

TOPIC TAGS: nuclear magnetic moment, particle interaction, proton interaction

ABSTRACT: The method of interacting quasi particles permits a quantitative determination of the magnetic moments of spherical particles. However, in some cases there is a discrepancy between the calculated and the experimental values owing to an inexact calculation of the interaction of neutrons and protons in the unfilled subshells. The case of two types of particles in unfilled subshells is considered in the simplest case, i.e., when in the unfilled levels there is a single proton (neutron) at level γ_1 and one to two pairs of neutrons (protons) at level γ_2. The expression for the magnetic moment of such a system is

$$\mu = \mu_s - \gamma^2\lambda(\sigma_z + \sigma_{z_1}n_{z_1})_{\lambda,\lambda} - C\beta,$$

The difference $\mu_{exp} - \mu_0$ (μ_0 being the experimental value) is shown to be negative for protons

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ACC NR: AP6001148

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and positive for neutrons; this is confirmed by experimental data for K^{41}, C^{53}, Nb^{93}, Mo^{97}, and Cd^{111}. In conclusion, the authors thank A. B. Migdal, A. A. Lushnikov, and M. A. Troitskiy for useful discussions. Orig. art. has: 1 table and 6 formulas.

SUB CODE: 20/ SUBM DATE: 04Dec64/ ORIG REF: 002/ OTH REF: 003

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODELI, V.; CHICOGIDZE, P., red.

[Party-state control in action] Partiino-gosudarstvennyi kontrol' v deistvii. Tbilisi, Sabchota Sakartvelo, 1965. 19 p. (MIRA 18:8)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

S/139/62/000/001/027/032
E032/E114

24.2200

AUTHORS: Kobelev, L.Ya., Filippov, B.N., and Khodenkov, G.Ye.

TITLE: On the effect of the spin-orbit interaction of electrons on the energy of a spin wave

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, no.1, 1962, 158-161

TEXT: The spin-spin and spin-orbit interactions of the electrons in a ferromagnetic are known to lead to a change in the spin-wave energy. This change is of interest in connection with the theory of the constants of anisotropy of ferromagnetics. In order to describe the increase in the energy due to the spin-orbit effect, the authors use the Schwinger method involving single-particle Green functions. The dynamical Schwinger principle is used to set up the equations for the single-particle temperature Green functions including spin-orbit terms. General expressions are then derived for the energy of elementary excitations and for the change in the spin-wave energy due to the spin effects for $T \gg 10\ ^{o}K$ and $T \ll 10\ ^{o}K$.

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KOBELEV, L.Ya.; FILIPPOV, B.N.; KHODENKOV, G.Ye.

Effect of the spin-orbital interaction of electrons on the energy of the spin wave. Izv.vys.ucheb.zav.;fiz. no.1:158-161 '62. (MIRA 15:6)

1. Ural'skiy gosudarstvennyy universitet imeni A.M. Gor'kogo.
(Electrons)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODER, O.A., assistent

Reactivity of the fetus following the administration of ether to parturients. Zdrav.Kazakh. 17 no.6:43-45 '57. (MIRA 12:6)

1. Iz kafedry akusherstva i ginekologii pediatricheskogo i sanitarno-gigiyenicheskogo fakul'tetov Kazakhskogo gosudarstvennogo meditsinskogo instituta im. V.M.Molotova.
(FETUS) (ETHER (ANESTHETIC))

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODER, O.A.

Effect of ether anesthesia on the beating of the fetal heart while using Nikolaev's triad. Vest. AN Kazakh. SSR 14 no.2:96-99 F '58.
(MIRA 11:2)
(ETHER (ANESTHETIC)--PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODER, O. A., Cand Med Sci -- (diss) "Reactivity of the fetus under ether narcosis in the mother." Alma-Ata, 1960. 19 pp; (Kirgiz State Medical Inst); 250 copies; price not given; (KL, 26-60, 144)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODERKINA, A. M.

USSR/Diseases of Farm Animals. Noninfecticus Diseases. R-12

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92716

Author : Khoderkina, A. M.
Inst : Sverdlovsk Agricultural Instituto.
Title : A Study of the Volume of the Circulating Blood and the Blood Reserves in Horses under Normal Conditions and in the Presence of Chronic Alveolar Pulmonary Emphysema.

Orig Pub : Tr. Sverdl. s.-kh. in-ta, 1957, 1, 295-309

Abstract : It was shown that the volume of circulating blood (VCB) and the blood reserves in healthy horses and in those suffering from chronic alveolar amphysema differed. In healthy horses at rest the VCB equals

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

SHKLUIKO, Aleksey; SOLOMAKHIN, N.I. [translator]; DERYAGIN, B.V., red.; VOYUTSKIY, S.S., prof., red.; KHODZHAYEVA, Z.F., red.; RYBKINA, V.P., tekhn.red.

[Colloid chemistry] Kolloidnaia khimiia. Pod red. B.V.Deriagina i S.S.Voiutskogo. Moskva, Izd-vo inostr.lit-ry, 1960. 332 p. Translated from the Bulgarian. (MIRA 14:3)

1. Chlen-korrespondent AN SSSR (for Deryagin).
(Colloids)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

BEMFORD, K.[Bamford, C.H.]; BARB, U.[Barb, W.G.]; DZHENKINS, A. [Jenkins, A.D.]; ON'ON, P.[Onyon, P.F.]; GRITSENKO, T.M., kand.khim. nauk, [translator]; MILYUTINSKAYA, R.I., kand. khim. nauk, [translator]; PRAVEDNIKOV, A.N., kand. khim. nauk [translator]; MALINSKIY, Yu.M., kand. khim. nauk, red.; KHODETSKAYA, Z.F., red.; PRIDANTSEVA, S.V., tekhn. red.

[Kinetics of vinyl polymerization by radical mechanisms] Kinetika radikal'noi polimerizatsii vinilovykh soedinenii. [By] C.H. Bamford i dr. Moskva, Izd-vo inostr. lit-ry, 1961. 345 p. (MIRA 15:3)
Translated from the English.
(Vinyl compound polymers) (Radicals (Chemistry))

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

YERMAKOV, P.M.; APRODOV, V.A.; YEFREMOV, Yu.K.; ROMASHOVA, A.T.; ZHERDENKO, O.N.; SOROKIN, V.V.; KHODETSKIY, V.G.

Basic points of the seven-year-plan for the development and activities of the Museum of Earth Science. Zhizn' Zem. no.1: 243-261 '61. (MIRA 15:6)

(Moscow--Geographical museums)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

SOV/146-58-4-4/22

AUTHORS: Ornatskiy, P.P., Candidate of Technical Sciences, Docent Khodeyev, I.K., and Dem'yanenko, V.A., Engineers

TITLE: A Sensitive, Multirange Electromagnetic Milliampere-Voltmeter for a Broadened Frequency Band

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Priborostroyeniye, 1958, Nr 4, pp 19-25 (USSR)

ABSTRACT: Presently a rapid improvement and further development of electrical measuring instruments of almost all systems is observed. However, the improvement of moving-iron instruments in regard to sensitivity, extended measuring and frequency ranges is advancing slowly at the present time. Recently the Kiyev plant "Tochelektropribor" developed a new series of class 0.5, E-59 moving-iron instruments, having increased sensitivity. The ammeters of this series, built for current of 2.5-10 amperes, have an increased frequency range. The multirange milliammeter for 10-20-40 milliamperes and the voltmeters of this series do not have an extended frequency range. In these devices a difference of the

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readings on direct current and on 50-cycle alternating current is observed with uncharged values of the magnitudes to be measured. The magnitude of this difference limits the sensitivity of the multirange milliampere-meters and voltmeters of type E-59. The frequency error of these instruments is positive and caused by a considerable interturn capacitance in the tapped measuring coil. At the Kafedra izmeritel'nykh ustroystv Kiyevskogo politekhnicheskogo instituta (Chair of Measuring Devices of the Kiyev Polytechnic Institute) in cooperation with the laboratory of indicating instruments of the plant "Tochelektropribor", special studies were performed for the purpose of improving the parameters of class 0.5 moving-iron instruments. The results of this work may be used for the development of high-sensitive alternating current instruments of electromagnetic and other systems for higher frequencies. A new multirange instrument with a tapped coil was created on the basis of the E-59

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

A Sensitive, Multirange Electromagnetic Milliampere-Voltmeter for a Broadened Frequency Band

frequency error of the moving-iron milliammeter in the presence of internal capacitance and especially in the suggested frequency compensation circuit. The compensation of the frequency error may be performed by means of an auxiliary coil which has a negative frequency error. As shown in Figure 4, the auxiliary coil will compensate in a certain frequency range the positive frequency error caused by parasite capacitance in the basic instrument coil. On this basis, a measuring instrument was built with the following ranges: 7.5, 15, 30 milliamperes; 30, 75, 150 v, and with additional resistors up to 600 v inclusively. The power required by the measuring coil in all measuring ranges is 0.09 w. The voltage drop in the working coil within the different ranges: 30 milliamperes = 3 v; 15 milliamperes = 6 v; 7.5 milliamperes = 12 v. The impedance of the voltmeter is in the following ranges: 30 v - 1,000 ohm; 75 v - 5,000 ohm; 150 v - 20,000 ohm. The instrument is designed for measuring [illegible]

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

SOV/146-58-4-4/22

A Sensitive, Multirange Electromagnetic Milliampere-Voltmeter for a Broadened Frequency Band

and alternating currents and voltages at frequencies up to 400 cycles. The accuracy class of the instrument is 0.5. The calculation and testing of the instrument model were performed by the student of the Kiyev Polytechnic Institute, V.A. Dem'yanenko. The model of this device was shown at the Brussels World Fair. Figure 7 shows a photograph of this instrument. There are 6 diagrams and 1 photograph.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnic Institute) Kiyevskiy zavod "Tochelektropribor" (Kiyev Plant "Tochelektropribor")

SUBMITTED: June 18, 1958

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODEYEV, I. K.

PHASE I BOOK EXPLOITATION SOV/4307

Akademiya nauk Ukrainskoy SSR. Institut elektrotekhniki

Voprosy obshchego elektropriborostroyeniya (Overall Problems of the Electric Instrument Industry) Kiyev, 1960. 262 p. 3,000 copies printed.

Additional Sponsoring Agency: Nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti. Ukrainskoye respublikanskoye pravleniye.

Editorial Board: A. D. Nesterenko, Corresponding Member, Academy of Sciences Ukrainskaya SSR (Resp. Ed.), N. I. Levin, Doctor of Technical Sciences, P. P. Ornatskiy, Candidate of Technical Sciences, V. P. Petrochenko, Candidate of Technical Sciences, A. F. Gorodovskiy, Engineer, S. Sh. Zaslavskiy, Engineer, and B. A. Seliber; Ed. of Publishing House: B. A. Kazantsev; Tech. Ed.: M. L. Yefimova.

PURPOSE: This book is intended for technical personnel working in the field of electric measurement techniques, in electrical instrument plants, in laboratories of electric power systems and in electric measurement laboratories of plants.

COVERAGE: This is a collection of reports presented at a conference on the overall development of the Soviet electrical instrument industry held in Kiyev on October 23-27, 1956. The conference was convened by the Institut elektrotekhniki AN UkrSSR (Institute of Electrical Engineering, Academy of Sciences UkrSSR) and the Ukrainskoye respublikanskoye pravleniye NTO priborostroitel'noy promyshlennosti (Ukrainian Republic Administration of NTO of the Instrument-making Industry). Problems relating to electrical instrument-making as a whole (reports by A. D. Nesterenko, P. P. Ornatskiy, Ya. S. Averbukh, Ye. G. Shramkov) were discussed, as well as problems relating to the development of reference instruments (Ya. S. Averbukh, I. K. Khodeyev), the automation of electric-measuring circuits (A. Ya. Shramkov, L. Ya. Mizyuk) and to the theory and practice of magnetic measurements (N. N. Shol'ts, O. L. Gorushtseyn). Attending the conference were workers of scientific research institutes and schools of higher education, along with representatives of the main electric instrument plants ("Vibrator" in Leningrad, "Tochelektropribor" in Kiyev, "Omelektrotochpribor" in Omsk, ZIP in Krasnodar and others) and of various electric power systems. No personalities are mentioned. References accompany two of the reports.

Fevraleva, N. Ye. Devices for Determining Characteristics of Retentive Magnetic Materials 156

Among the devices described are those used for determining the characteristics of retentive-magnetic materials, those with compensating coils, and bridge-type devices. Induction and field intensity errors are reviewed with comparisons being given between the various described devices. There are 5 references: 4 Soviet and 1 German.

Andriyevskiy, Yu. A., and B. I. Klachkevich. Use of Magnetic Modulation Transmitters for Measurement of the Temperature Factor of Permanent Magnet Magnetic Moments 164

The author suggests a new method of measuring the temperature factor of the magnetic moment of permanent magnets involving the use of a magnetic modulation transmitter. The measuring device is described, and errors in the proposed method are analyzed. There are 4 references, all Soviet.

Averbukh, Ya. S. High Precision A-C Devices for a Broad Range of Rated Frequencies 175

The author suggests a series of electrodynamic devices of somewhat complex construction which would permit the use of an expanded range of frequencies at a considerable reduction in power. There are 6 references: 5 Soviet and 1 English.

Khodeyev, I. K. Type D57 Electrodynamic Reference Instruments of the Precision Class 0.1 190

The author describes instruments which are to be constructed in accordance with the specifications of GOST 1845-52 (All-Union State Standard 1845-52).

Khodeyev, I. K. Type M502 Permanent-Magnet Moving-Coil Reference Instruments of the 0.1 Class 201

The author describes M502-type instruments having the following measurement boundaries: 0.15, 0.3, 0.75, 1.5, 3, and 7.5 amperes; 45 and 75 millivolts; and 1.5 and 3 volts.

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

S/194/61/000/008/003/092
D201/D304

AUTHOR: Khodeyev, I.K.

TITLE: Reference electrodynamic instruments of the 0.1 class of accuracy type Д57 (D57)

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 7, abstract 8 A46 (V sb. Vopr. obshch. elektropriborostr., Kiyev, AN USSR, 1960, 190-200)

TEXT: The range of applications is considered of class 0.1 instruments: testing class 0.5 instruments for a.c. and d.c. without introducing corrections into the reference instrument and into subsequent measurements and testing of accurate mechanisms. A description is given of type D57 instruments such as: Ammeters with measurement ranges 0.5/1 and 5/10 amp and voltmeters 150/300 V. Basic circuit diagrams of the instrument are given together with the calculation of frequency compensating elements. The compensating circuit capacitors are determined not from the condition for

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the reactances of the respective circuits, but from the view point of keeping within limits the torque of the instrument when switching from d.c. to a.c. and when changing the frequency within the instrument limit. The D57 ammeters have the frequency range extended to 1000 c/s, voltmeters to 400 c/s. With individual lab. compensated frequency errors, the frequency range may be further extended, both for ammeters and voltmeters. The temperature compensating circuit is adjusted individually for every instrument. The temperature error does not exceed 0.05% per 10°C. The scale has two ranges, and is 600 mm long. The instrument pivots are made of cobalt-tungsten alloy with 50 microns curvatures. The ratio of the bearing to the lower pivot curvature is 3, to the upper - 2. The instrument withstands the transport jolts well, the changes in indications in practive not exceeding ¼ of that allowed by GOST. Precautions have been undertaken to diminish the effect of switching on the instrument indications. The overall dimensions are 350 x 368 x 165 mm, weight 8 kg. General construction data of D57 instruments are given together with basic features of modifications. [Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

S/194/61/000/008/005/092
D201/D304

AUTHOR: Khodeyev, I.K.

TITLE: Reference moving-coil class 0.1 instruments type M502

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 8, abstract 8 A48 (V sb. Vopr. obshch. elektropriborostr., Kiyev, AN USSR, 1960, 201-217)

TEXT: A description is given of type M502 10-range d.c. ammeters-voltmeters. The upper range limits of the instruments are 0.15 - 0.3 - 0.75 - 1.5 - 3 - 7.5 amp. and 45 - 75 - 1500 - 3000 mV. The voltage ranges may be extended by using separate calibrated resistors. The nominal instrument current on 3 V range is 3 mA. The current ranges may be extended by additional calibrated shunts for 45 and 75 mV. The scale length is 300 mm, it has 150 divisions and a vernier. The angle of retention of the moving part is 83°, its weight 1.7 g, storage factor 0.75. Damping time ~ 4 sec. Overall

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

Reference moving-coil class 0.1... S/194/61/000/008/005/092
D201/D304

dimensions 360 x 350 x 126mm, weight ~ 7 kg. The description of the instrument construction is given, design of the temperature compensation circuit and evaluation of the required adjustment of resistors in calibration. The full circuit diagram of internal connections is given. The M502 instrument is compared with those in similar use produced by General Electric (USA), Weston (USA) and Paul Gerz (Austria). The advantages of the M502 are discussed.
[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

KHODEYEV, Ivan Konstantinovich; TALITSKIY, A.V., red.

[Portable a.c. ammeters, voltmeters, and wattmeters. Measuring instrument sets] Perenosnye ampermetry, vol't-metry i vattmetry peremennogo toka. Izmeritel'nye komplekty. Moskva, Energiia, 1964. 103 p. (Elektroizmeritel'nye pribory, no.8) (MIRA 17:8)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

SOV/78-3-12-2/36

AUTHORS: Gorokhov, L. N., Khodeyev, Yu. S., Akishin, P. A.

TITLE: Mass Spectrometric Investigation of the Sublimation of Sodium Chloride (Mass-spektrometricheskoye issledovaniye sublimatsii khlorida natriya)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1958, Vol 3 Nr 12, pp 2597-2598 (USSR)

ABSTRACT: The sublimation of sodium chloride was investigated using the mass spectrometric method. The $NaCl^+$ and Na_2Cl^+ ions were found in the mass spectrum, and at temperatures in the region of the melting point trace amounts of the $Na_3Cl_2^+$ ion were detected. These last ions form by a secondary reaction mechanism. In the temperature range 834-903°K, the average of the ratio $J_{NaCl^+}/J_{Na_2Cl^+} \cong 2$. Using the relationship $lg(J_{Na_2Cl^+} \cdot T) - 1/T$ the heat of sublimation of the dimer form of the sodium chloride $\Delta H_2 = 55.3 \pm 1.0$ kcal/g mol was computed. The dissociation energy of the dimer form is $\Delta E = 45.6 \pm 1.8$ kcal. The results obtained

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Mass Spectrometric Investigation of the Sublimation of Sodium Chloride

for ΔH_1 and ΔH_2 agree with the data of the publications. The values for ΔH_1 and ΔH_2 are 51.1 and 55.5 kcal/mol, respectively. There are 10 references, 3 of which are Soviet.

SUBMITTED: December 3, 1957

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120011-5

87372
S/120/60/000/004/011/028
E032/E414

5.5800 (1043, 1228, 1273)

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TITLE: Application of a Mass-Produced Mass-Spectrometer to the Study of Evaporation of High Melting Point Materials

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TEXT: One of the most effective methods of determination of the composition of vapours and their thermodynamic characteristics (pressure, heats of sublimation and dissociation) is the combination of the Knudsen effusion method and the mass-spectrometric analysis of the effusing vapour. The mass produced mass-spectrometers MC -3 (MS-3), MC -4 (MS-4) and MM -1305 (MI-1305) were designed for the isotopic analysis but with certain modifications and improvements they can also be used to study the properties of vapours of high melting point materials. These modifications include the provision of an ion source incorporating the effusion chamber whose temperature can be varied during the experiment, the provision of a device which prevents the molecular beam from reaching the ionization chamber so that the intensity of a mass-line under investigation can be compared with the background

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intensity, and the inclusion of a high-sensitivity ion current detector for use with substances whose vapour pressure under the experimental conditions which can be achieved with these spectrometers is relatively low. The present paper gives an account of these modifications as introduced in the MS-3 mass-spectrometer. The effusion chamber employed is shown in Fig.2, in which 1 is the effusion chamber, 2 is a heating spiral, 3 is a tantalum screen, 4 is a stainless steel screen, 5 is the body and 7 is a thermocouple. The dimensions of the effusion chamber are: internal diameter 5 mm, length 5.5 mm, diameter of effusion aperture 0.1 mm (or greater). The distance from the effusion aperture to the centre of the ionization region is about 10 mm. No details are given of the ionization device except for a statement that the ion source is a modified form of the normal ion source used in the MS-3 mass-spectrometer. In the case of temperatures between 1000 and 2000°C, the effusion chamber illustrated in Fig.3 was employed. The actual effusion

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